

INTERNATIONAL SEARCH REPORT

 International application No.
 PCT/KR2004/003336

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 G01N 35/00, G01N 27/447, B01L 3/00, B01J 19/00, C12Q 1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G01N 35/00, G01N 33/48, B01J 19/00, B01D 57/02, G01N 27/26

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patent and Applications for Inventions since 1975

Korean Utility Models and Applications for Utility Models since 1975

Japanese Utility Models and Applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS, WPI, USPTO, PAJ, NCBI, INSPECT "particle, flow, nozzle, focusing, channel, fluid, manipulation, Microparticles, microfluidic, system, sizing, focusing, asymmetric"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AA X	US 6592821 B1 (Wada, H.G., et al., US) 15 Jul 2003 - see abstract and Figs 16, 23 & 28 - see column 11 line.25 ~ column 13 line 28, column 20 lines 9~25 & columns 30~33	1-5, 7-9
AC A	WO 02/44689 A2 (Wang, M., et al., US) 06 Jun 2002 - see page 20 & Fig 7	1-9
A	Proc. Natl. Acad. Sci. USA, vol.96: 11-13 (Chou, H.P., et al., US) Jan 1999 - see the whole document	1-9
AB A	WO 9800231 A1 (Parce, J.W., et al., US) 08 Jan 1998 - see abstract and claims	1-9

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

30 MARCH 2005 (30.03.2005)

Date of mailing of the international search report

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Name and mailing address of the ISA/KR


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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/003336

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 06592821 B1	15 Jul 2003	AU 200050158 A1	05 Dec 2000
		CA 2373347 A1	23 Nov 2000
		EP 01179087 A1	13 Feb 2002
		WO 200070080 A1	23 Nov 2000
WO 200244689A2	06 Jun 2002	AU 200230530 A1	11 Jun 2002
		EP 01352093 A2	15 Oct 2003
		JP 16528156 A	16 Sep 2004
		US 2002181837 A1	05 Dec 2002
WO 9800231 A1	08 Jan 1998	AU 3499097 A1	21 Jan 1998
		CA 2435204 A1	27 Nov 1999
		CN 1262629 A	09 Aug 2000
		EP 01145760 A2	17 Oct 2001
		JP 13502790 A	27 Feb 2001
		KR 1020000022329 A	25 Apr 2000
		NZ 333346 A	27 Mar 2000
		US 2002039751 A1	04 Apr 2002
		US 6630353 BA	07 Oct 2003